IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for controlling load in a telecommunication system ~~comprising~~ including a network part ~~(100, 114, 116, 340)~~, at least one subscriber terminal ~~(104)~~ and a telecommunication connection ~~(108)~~ between the network part ~~(100, 114, 116, 340)~~ and the subscriber terminal ~~(104)~~, ~~in which~~ the method comprising:

using the telecommunication connection ~~(108) is used~~ for connection setup and data transfer, the telecommunication connection ~~(108) comprises~~ including a channel for relaying channel allocation requests transmitted by the subscriber terminal to the network part ~~(100, 114, 116, 340)~~, and

~~characterized by~~ controlling the telecommunication system load by adjusting the capacity of the channel used for relaying the channel a allocation requests.

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2. (Currently Amended) A method as claimed in claim 1, ~~characterized by~~ further comprising decreasing channel capacity when a base station system becomes overloaded, and when the load drops to a desired level, increasing the channel capacity.

3. (Currently Amended) A method as claimed in claim 1, ~~characterized by~~ further comprising configuring a logical packet associated control channel PCCCH for the resource of a packet data channel PDCH including ~~comprised by~~ the ~~radio~~ telecommunication connection ~~(108)~~, ~~which~~ the PDCH resource ~~comprised by~~ including ~~the~~ a logical PCCCH channel ~~is~~ divided into an uplink resource and downlink resource, ~~which~~ the uplink resource ~~is~~ being divided between ~~a~~ packet random access channel PRACH, a packet data traffic channel PDTCH and a packet associated control channel PACCH, and

~~which~~ the uplink resource, which is not fixedly configured as the PRACH channel, ~~is~~ being dynamically allocated to the PRACH, PDTCH and PACCH channels.

4. (Currently Amended) A method as claimed in claim 3, ~~characterized by~~ further comprising indicating a resource part to be allocated to the PRACH channel by means of the downlink ~~resources~~ resource of the PCCCH channel and by relaying uplink state flag

~~USF~~ information to a radio path in each downlink radio block of the PDCH resource included by the logical PCCCH channel, ~~and~~ wherein

the ~~USF~~ uplink state flag information of the downlink radio block ~~having~~ has a certain predetermined idle mode value, whereby the next uplink radio block in turn is used as the PRACH channel.

5. (Currently Amended) A method as claimed in claim 3, ~~characterized by~~ further comprising:

indicating the resource part to be allocated to the PRACH channel by means of the PCCCH downlink resource ~~resources~~, and

relaying the uplink state flag ~~USF~~ information to the radio path in each downlink radio block of the PDCH resource included by the logical PCCCH channel, wherein

the ~~USF~~ uplink state flag information of the downlink radio block ~~having~~ has another value than a certain predetermined idle mode value, and the ~~USF~~ uplink state flag information ~~having~~ has such a value that the subscriber terminal ~~(104)~~ is unable to use the channel as the PRACH channel.

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6. (Currently Amended) A method as claimed in claim 3, ~~characterized by~~ further comprising:

indicating the resource part to be allocated to the PRACH channel by means of the downlink resources of the PCCCH channel, and

relaying the uplink state flag ~~USF~~ information to the radio path in each downlink radio block of the PDCH resource included by the logical PCCCH channel, wherein

the USF information of the downlink radio block ~~having~~ has another value than a certain predetermined idle mode value, whereby the uplink packet traffic of the PDTCH and the PACCH channels of the subscriber terminal ~~(104)~~ allocated to the PDCH resource concerned is controlled by the ~~USF~~ uplink state flag information, and the ~~USF~~ uplink state flag information ~~having~~ has such a value that the subscriber terminal ~~(104)~~ is unable to use the channel as the PRACH channel.

7. (Currently Amended) A method as claimed in claim 1, ~~characterized by~~ further comprising measuring continually the base station system's processor load or the signalling load between the base station ~~(100)~~ and the base station controller ~~(114)~~.

8. (Currently Amended) A method as claimed in claim 1, ~~characterized by being~~ wherein the method is utilized in the base station ~~(100)~~ and/or the base station controller ~~(114)~~.

9. (Currently Amended) A method as claimed in claim 1, ~~characterized by~~ wherein the method is primarily ~~being~~ employed in the base station ~~(100)~~ and/or the base station controller ~~(114)~~, to which a high PRACH capacity is configured.

10. (Currently Amended) A telecommunication system comprising:

a network part ~~(100, 114, 116, 340)~~,

at least one subscriber terminal ~~(104)~~, and

a telecommunication connection ~~(108)~~ between the network part ~~(100, 114, 116, 340)~~ and the subscriber terminal ~~(104)~~, and wherein ~~in which telecommunication system~~

a base station system is arranged to use the telecommunication connection ~~(108)~~ for connection setup and data transfer,

the telecommunication connection ~~(108) comprises~~ includes a channel for relaying channel allocation requests transmitted by the subscriber terminal to the network part ~~(100, 114, 116, 340)~~, and

~~characterized in that~~ the telecommunication system is arranged to control load by adjusting the capacity of the channel used for relaying the channel allocation requests.

11. (Currently Amended) A telecommunication system as claimed in claim 10, ~~characterized in that~~ wherein when the base station system becomes overloaded, the telecommunication system is arranged to decrease PRACH channel capacity, and when the load drops to a desired level, the telecommunication system is arranged to increase the PRACH channel capacity.

12. (Currently Amended) A telecommunication system as claimed in claim 10, ~~characterized in that~~ wherein the telecommunication system is arranged to configure a logical packet associated control channel PCCCH for the resource of a packet data channel PDCH comprised by the radio connection ~~(108)~~, ~~which~~

the PDCH resource ~~comprised by~~ includes a ~~the~~ logical PCCCH channel ~~is~~ divided into an uplink resource and downlink resource, the uplink ~~resources~~ resource being divided between the PRACH channel, a packet data traffic channel PDTCH and a packet associated control channel PACCH, and ~~which the~~

uplink resource, which is not fixedly configured as the PRACH channel, ~~is~~ being dynamically allocated to the PRACH, PDTCH and PACCH channels.

13. (Currently Amended) A telecommunication system as claimed in claim 12, ~~characterized in that~~ wherein the telecommunication system is arranged to indicate a resource part to be allocated to the PRACH channel by means of the downlink ~~resources~~ resource of the PCCCH channel,

the system is arranged to relay uplink state flag ~~USF~~ information to a radio path in each downlink radio block of the PDCH resource included by the logical PCCCH channel, and ~~that~~

the ~~USF~~ uplink state flag information of the downlink radio block has a certain predetermined idle mode value, whereby the telecommunication system is arranged to use the next uplink radio block in turn as the PRACH channel.

14. (Currently Amended) A telecommunication system as claimed in claim 12, ~~characterized in that~~ wherein the system is arranged to indicate the resource part to be allocated to the PRACH channel by means of the downlink resources and to relay the uplink state flag ~~USF~~ information to the radio path in each downlink radio block of the PDCH resources included by the logical PCCCH channel,

the ~~USF~~ uplink stage flag information of the downlink radio block has another value than a certain predetermined idle mode value, and

the USF information has such a value that the subscriber terminal ~~(104)~~ is unable to use the channel as the PRACH channel.

15. (Currently Amended) A telecommunication system as claimed in claim 12, ~~characterized in that~~ wherein the system is arranged to indicate the resource part to be allocated to the PRACH channel by means of the downlink ~~resources~~ resource of the PCCCH channel, and arranged to relay the uplink state flag ~~USF~~ information to the radio path in each downlink radio block of the PDCH resource included by the logical PCCCH channel,

the downlink radio block uplink state flag ~~USF~~ information has another value than a certain predetermined idle mode value, whereby the telecommunication system is arranged to control the uplink packet traffic of the PDTCH and the PACCH channels of the subscriber terminal ~~(104)~~ allocated to the PDCH resource concerned by the ~~USF~~ uplink state flag information, and

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the ~~USF~~ uplink state flag information has such a value that the subscriber terminal ~~(104)~~ is unable to use the channel as the PRACH channel.

16. (Currently Amended) A telecommunication system as claimed in claim 10, ~~characterized in that~~ wherein the system is arranged to measure continually the base station system's processor load or the signalling load between the base station ~~(100)~~ and the base station controller ~~(114)~~.